

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/870,716 05/30/2001 Hiroshi Urabe 71369-55968 8909 7590 11/22/2004 **EXAMINER** Dike, Bronstein, Roberts & Cushman RAJGURU, UMAKANT K Intellectual Property Pratice Group Edwards & Angell ART UNIT PAPER NUMBER P.O. Box 9169 1711 Boston, MA 02209

DATE MAILED: 11/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/870,716	URABE ET AL.	D
Office Action Summary	Examiner	Art Unit	-
Supplemental	Umakant K. Rajguru	1711	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet with	n the correspondence addr	ess
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatic - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. FR 1.136(a). In no event, however, may a repon. a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MONTH statute.	oly be timely filed (30) days will be considered timely. HS from the mailing date of this common the common to t	munication.
Status			
1) Responsive to communication(s) filed on (02 December 2003.		
- \5 7	This action is non-final.		
3)☐ Since this application is in condition for all		s prosecution as to the m	parite ie
closed in accordance with the practice und	der <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.	ICI IIO IO
Disposition of Claims		,	
4)⊠ Claim(s) <u>1-16</u> is/are pending in the applica	ation		
4a) Of the above claim(s) is/are with			·
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-16</u> is/are rejected.			÷
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction ar	nd/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exan	miner.		
10) The drawing(s) filed on is/are: a)	accepted or b) objected to by	the Evaminer	
Applicant may not request that any objection to	the drawing(s) be held in abeyance	See 37 CFR 1 85(a)	
Replacement drawing sheet(s) including the co	rrection is required if the drawing(s)	is objected to. See 37 CFR 1	1 101/4)
11)☐ The oath or declaration is objected to by the	e Examiner. Note the attached C	Office Action or form PTO-	1.121(u <i>).</i> 152
Priority under 35 U.S.C. § 119			102.
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum	nents have been received.		
2. ☐ Certified copies of the priority docum 3. ☐ Copies of the certified copies of the r	ients have been received in Appl	ication No	
	oriority documents have been rec	ceived in this National Sta	ge
application from the International Bur * See the attached detailed Office action for a	feau (PCT Rule 17.2(a)).		
and amening dotained office dottor for a	list of the certified copies not rec	eived.	
Attachment(s)			
1) Notice of References Cited (PTO-892)			7
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Sumr Paper No(s)/Ma	mary (PTO-413) ail Date	
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date		mal Patent Application (PTO-152	<u>'</u>)

Application/Control Number: 09/870,716

Art Unit: 1762

- 1. This office action is a supplemental one to the earlier one mailed on Sep 01, 2004 because claims 15 & 16 were inadvertently omitted in that action.
- 2. A response has been filed on Dec 02, 2003.
- 3. Claims being examined are now 1-16
- 4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 5. Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakacho et al (EP 0945478) in view of Ida et al (US 6337031) or An et al (US 5028347).

Nakacho discloses a flame retardant, which is phosphazene compound, a resin composition and a molded article (abstract). Various thermoplastic resins are used, some of them being a polyamide, modified polyphenylene ether, styrene resin and modified styrene resins (page 10, lines 7-18). Phosphazene compound is described on page 3, line 12 to page 6, line 32 and it reads on the one that is instantly claimed. Composition comprises (a) 100 parts by wt of resin, (b) 0.1 to 100 parts by wt of a flame retardant, and (c) 0.1 to 50 parts by wt of organic phosphorus compound (page 4, lines 6-13). Claimed cyclic phenoxy phosphazene is disclosed on page 33, lines 25-38. Inorganic fillers are describe on page 10, line 39 to page 11, line 18. Glass fibers are one of them (page 10, line 51).

Nakacho does not mention a magnetic powder (of instant claims 10-12).

Ida discloses a flame-retardant resin magnet material comprising a magnetic powder based on ferrite (col. 2, line 65 to col. 3; line 31).

Application/Control Number: 09/870,716

Art Unit: 1762

An also describes a flame-retardant magnetic composite resin composition comprising a magnetic powder (col. 9, line 42 to col. 10, line 4).

It would therefore have been obvious to add to the composition of Nakacho, the magnetic powder (of Ida or An) with the expectation of obtaining a molded article such as a magnet, having flame retardant property as well as magnetic property.

Furthermore teaching of An (in col. 3, lines 28-36), would suggest one of ordinary skill in the art to surface treat glass fibers in the flame retardant composition of Nakacho in order to improve dispersibility and thereby enhance mechanical strength and flowability.

6. Claims 1-9 are rejected under 35 U.S.C. 102 (b) as being anticipated by Nakacho et al (EP 0945478).

WOL.

F. Disclosure of Nakacho, presented earlier shows that claims 1-9 Lack novelty.

MKR

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakacho et al (EP 0945478) in view of Ida et al (US 6337031) or An et al (US 5028347) as applied to claim 1 above, and further in view of White et al (US 4806602).

Combination of Nakacho and Ida or An does not teach modified polyphenylene ether of instant claim 16.

MAK

White describes anhydride copping polyphenylene ether with carboxylic acid.

It would have been obvious to modify polyphenylene ether resin used in the flame retardant composition of Nakacho since such a modified resin is less susceptible to oxidative degradation. Such degradation leads to a composition becoming dark in color and also brittle.

Application/Control Number: 09/870,716

Art Unit: 1762

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Page 4

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Umakant K Rajguru whose telephone number is 571-272-1077. The examiner can normally be reached on Monday thru Friday from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James J. Seidleck can be reached on 571-272-9306. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rajguru/LR November 5, 2004

James J. Seidleck
Supervisory Patent Examinar
Technology Center 1700